SCREENING SITE INSPECTION REPORT
FOR
TEXACO INC SALES TERM 33 083
EAST PEORIA, ILLINOIS
U.S. EPA ID: ILD042844456
SS ID: NONE
TDD: F05-8903-010
PAN: FIL0602SA

SEPTEMBER 4, 1991

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SIGNATURE PAGE
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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Texaco Inc Sales Term (TIST) 33 083 site under contract number 68-01-7347.

The site was initially discovered when Texaco, Inc., submitted a section 103(c) Notification of Hazardous Waste Site form to U.S. EPA on June 8, 1981, indicating that leaded tank bottoms may have been handled or disposed of on-site (U.S. EPA 1985).

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Larry Winner of the Illinois Environmental Protection Agency (IEPA) and is dated January 3, 1985 (U.S. EPA 1985).

FIT prepared an SSI work plan for the TIST 33 083 site under technical directive document (TDD) F05-8706-033, issued on June 5, 1987. The SSI work plan was approved by U.S. EPA on March 27, 1989. The SSI of the TIST 33 083 site was conducted on June 26, 1990, under TDD F05-8903-010, issued on March 30, 1989.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of six soil samples and four monitoring well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined

> preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.
>
> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

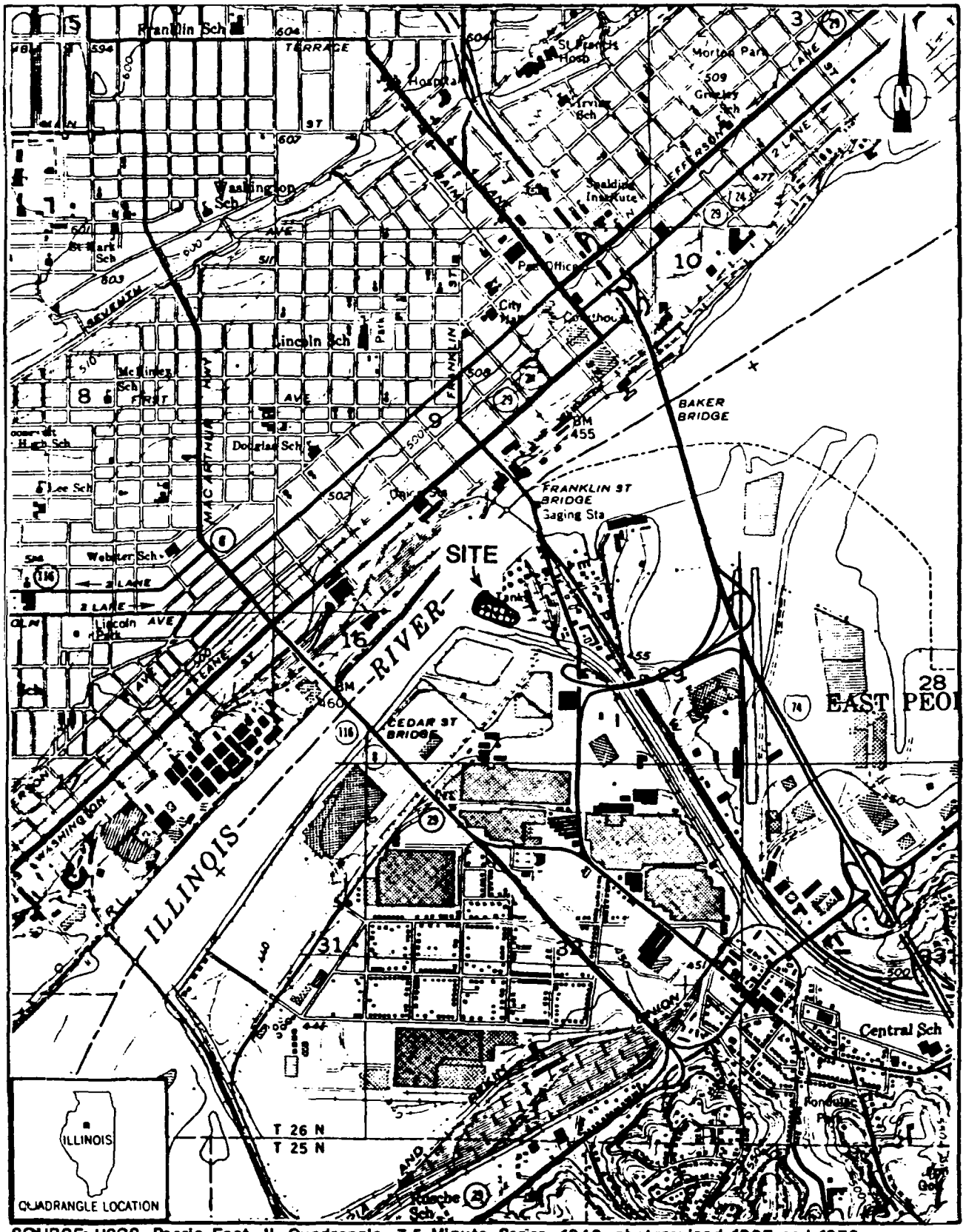
2.2 SITE DESCRIPTION

The TIST 33 083 site is an approximately 4-acre, former aboveground tank farm that was used as a storage facility for diesel fuel, lubrication oil, hydraulic oil, and machine cutting oil between 1968 and 1988. All the tanks were dismantled and removed in July 1989, and the site is currently inactive (U.S. EPA 1985). The site is located on a larger property just north of the junction of Farm Creek and the Illinois River at 1253 W. Washington, East Peoria, Tazewell County, Illinois (W1/2 sec. 29, T.26N., R.4W.) (see Figure 2-1 for site location). Land use in the vicinity of the site is primarily industrial.

A 4-mile radius map of the TIST 33 083 site is provided in Appendix A.

2.3 SITE HISTORY

The site is currently owned by Caterpillar, Inc. Operations began at the TIST 33 083 site in 1968 when Texaco used the site as a gasoline storage terminal (U.S. EPA 1985). The site contained nine aboveground storage tanks (the exact volumes are not known). Each tank was located in an area enclosed by berms. The areas were numbered 7 through 15. Current site representatives believe that Texaco used the tanks solely



SOURCE: USGS, Peoria East, IL Quadrangle, 7.5 Minute Series, 1949, photorevised 1967 and 1979.

SCALE
0 0.5 1 MILE

FIGURE 2-1 SITE LOCATION

for the storage of fuels (Anderson et al. 1990). There is no information in FIT files regarding the activities at the TIST 33 083 site between 1968 and 1979.

In May 1979, the Administrator of U.S. EPA found the TIST 33 083 site in violation of the Clean Air Act, section 113 (a)(1) amended [42 U.S.C. sec. 7413 (a)(1)], specifically Illinois Rule 205, which deals with the control of volatile organic materials. The rule states that a storage or loading rack area must have a vapor collection and disposal system properly installed, in good working order, and in operation (U.S. EPA 1979). The TIST site was allegedly not equipped with such a system, which resulted in the violation report. FIT file information does not indicate what actions were taken as a result of this violation.

Caterpillar purchased the site and surrounding property in September 1980. The property purchased includes land owned by Texaco that contains the site, as well as property to the north. At this time, all storage tanks were emptied, inspected, and repaired. Caterpillar used the tanks to store diesel fuel, as well as lubrication oil, hydraulic oil, and machine cutting oil (Anderson et al. 1990).

In June 1981, Texaco submitted a section 103(c) Notification of Hazardous Waste Site form to U.S. EPA Region V, indicating that on-site disposal of leaded tank bottoms may have occurred while Texaco operated the TIST 33 083 site (U.S. EPA 1985).

The only on-site spill that Caterpillar officials are aware of occurred in 1986 when Caterpillar spilled approximately 4,000 gallons of diesel fuel in area 12. Caterpillar personnel cleaned up the spill themselves and were convinced the fuel did not reach the Illinois River. No regulatory agencies were notified (Anderson et al. 1990).

In 1987 Sirrine Environmental Consultants installed five monitoring wells at the TIST 33 083 site. Information regarding why Sirrine Environmental Consultants was hired was not available in FIT files.

Caterpillar ceased using the tanks for the storage of fuels and oil in July 1988. The tanks were dismantled and removed in July 1989 (Anderson et al. 1990).

The only permits associated with the site that Caterpillar officials are aware of are a state air permit and a special waste hauling

permit for the hauling of waste tank bottoms, fuel, and water to Caterpillar's main facility. The special waste hauling permit is number 1790205031 (Anderson et al. 1990).

There are no current regulatory or enforcement actions being undertaken by state or federal agencies concerning the TIST 33 083 site.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the TIST 33 083 site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan, with the following exceptions. The work plan called for the collection of six soil samples at depths of 4 to 6 feet. However, FIT collected three soil samples at depths of 4 to 6 feet, two soil samples at depths of 3 to 4 feet, and one surface soil sample at a depth of 6 inches, because the soil was too hard for FIT to achieve the depths described in the work plan. Four monitoring well samples not described in the work plan were also collected, upon FIT's discovery that monitoring wells were present on-site.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the TIST 33 083 site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Daniel Sullivan, FIT team leader, conducted an interview with the following Caterpillar personnel: Estella Vallejo, corporate attorney; Bob Kilgo, corporate Environmental Engineer; Mark Hynes, Supervisor of Chemical Engineering; and Randy Anderson, Environmental Engineer. The interview was conducted on June 26, 1990, at 8:40 a.m. in an office on-site. Also present at the interview was Ron Bugg of FIT. The

interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the TIST 33 083 site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 10:00 a.m. and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by Caterpillar representatives during the reconnaissance inspection.

Reconnaissance Inspection Observations. The TIST 33 083 site is located in an industrial area within the corporate boundaries of East Peoria, Illinois. The TIST 33 083 site covers approximately 4 acres of land that previously contained nine petroleum storage tanks (see Figure 3-1 for site features). The tanks were removed in July 1989, and the site is currently unused.

The site is bordered to the north by an abandoned Caterpillar tank farm that was used for petroleum storage (Anderson et al. 1990). The site is bordered to the west by the Illinois River and to the south by Farm Creek. The site is bordered to the east by an open, unused field that is part of the Caterpillar property. A building Caterpillar currently uses as an office and warehouse is located northeast of this field. Horizontal tanks that currently store liquid hydrocarbons are located southeast of the office/warehouse building. FIT file information does not indicate what the liquid hydrocarbons were used for. A railroad yard is located northeast of the office/warehouse building.

The Caterpillar property that contains the site is entirely fenced and equipped with an alarm system. The berms that enclosed the tank areas were intact at the time of the SSI. The surface of the site was covered with sand and sparsely vegetated. Pieces of rubbish (glass, concrete, etc.) were observed throughout the site.

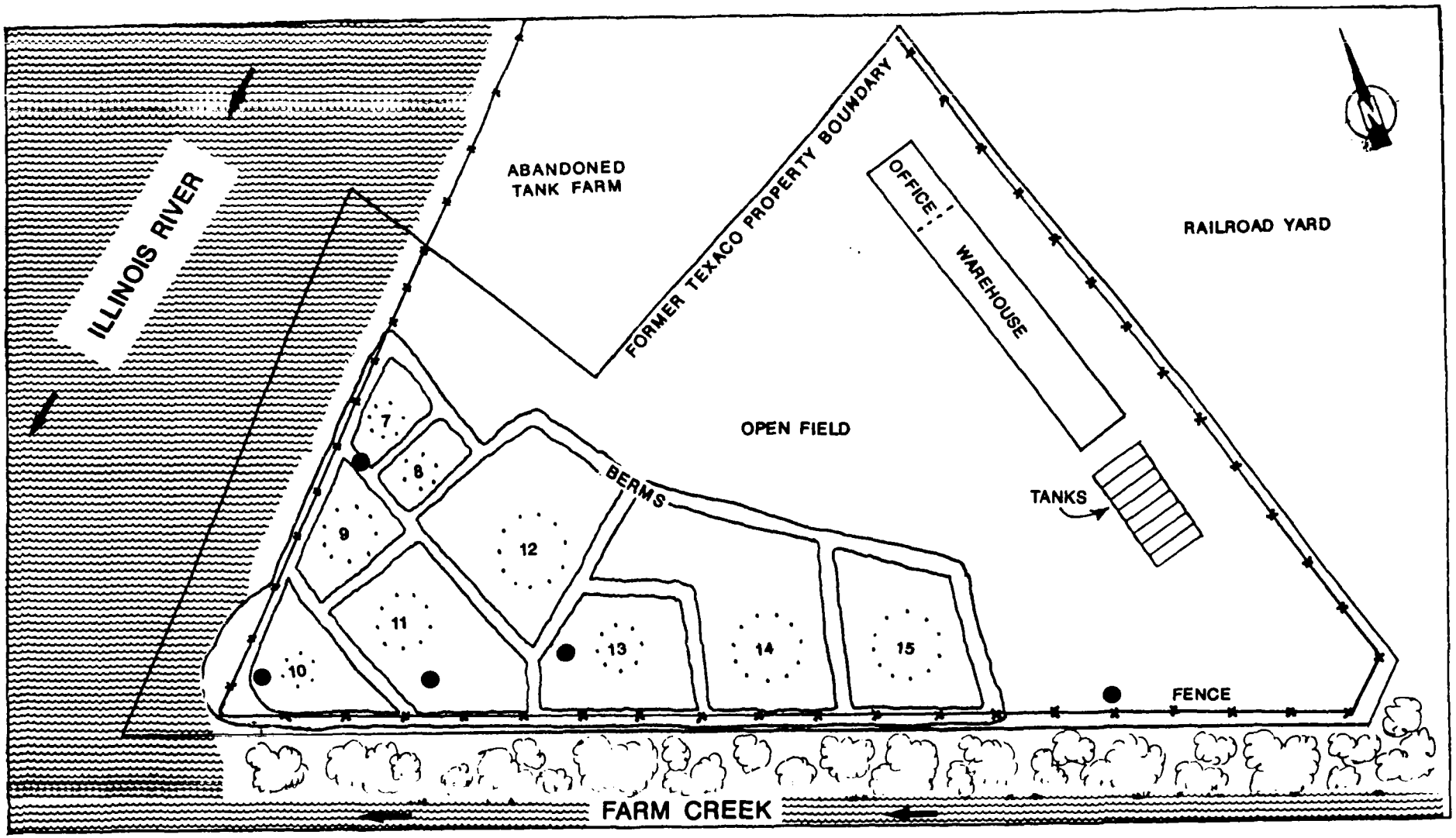


FIGURE 3-1 SITE FEATURES

FIT photographs from the SSI of the TIST 33 083 site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On June 26, 1990, FIT collected six soil samples and four monitoring well samples at the TIST 33 083 site. A portion of each soil and monitoring well sample was offered to and accepted by to a site representative.

Soil Sampling Procedures. Soil sample S1 was collected at a depth of approximately 4 feet inside the berm of area 12 (see Figure 3-2 for soil sampling locations). In 1986, 4,000 gallons of diesel fuel were spilled in area 12. Soil sample S2 was collected at a depth of 4 feet inside the berm of area 7. Soil sample S3 was collected at a depth of 5 feet inside the berm of area 10. Soil sample S4 was collected at a depth of 3 feet inside the berm of area 13. Soil sample S5 was collected at a depth of 3 feet inside the berm of area 15. Soil samples S1 through S5 were collected at depth because a diesel fuel spill was known to have occurred on-site and leaded tank bottoms may have been disposed of on-site (Anderson et al. 1990).

Soil sample S6 was collected at a depth of 6 inches from an open field on Caterpillar property east of the site. Sample S6 was collected as a potential background soil sample. The background soil sample was collected to determine the representative chemical content of the soil in the area surrounding the site. This location was selected because the area appeared to be undisturbed.

Subsurface soil samples S1 through S5 were collected using a posthole digger or bucket auger. After a hole was excavated to the desired depth, sample material from the hole was transferred to stainless steel bowls, mixed, and placed into sample bottles using a hand trowel.

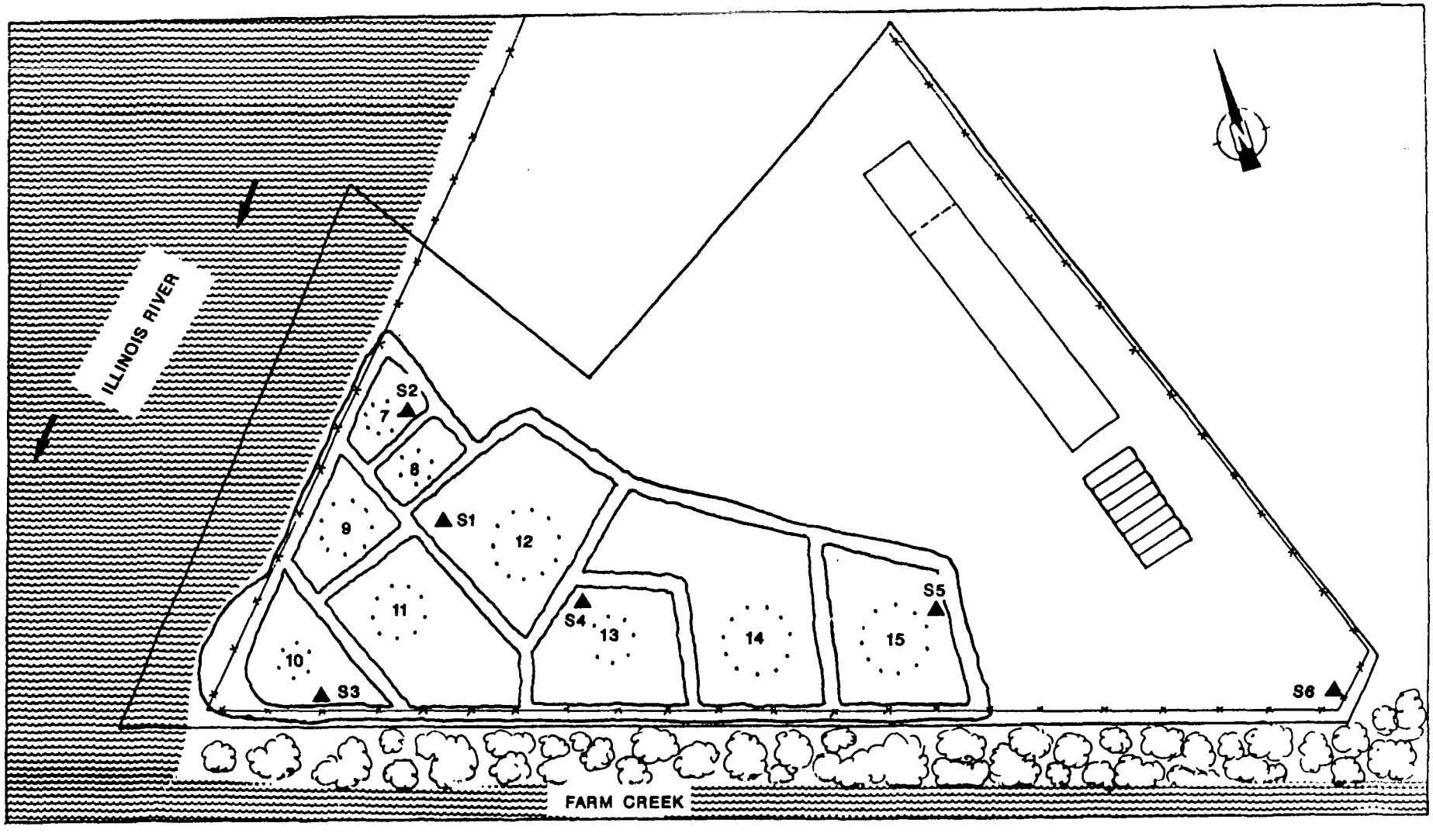


FIGURE 3-2 SOIL SAMPLING LOCATIONS

Sample material that was to be analyzed for volatile organic compounds was placed into sample bottles with the hand trowel prior to mixing (E & E 1987).

Surface soil sample S6 was collected using a hand trowel. Sample material to be analyzed for volatile organic compounds was transferred directly from the hole to sample bottles, using the trowel. The remaining sample material was then transferred to a stainless steel bowl, mixed, and placed into sample bottles using the hand trowel (E & E 1987).

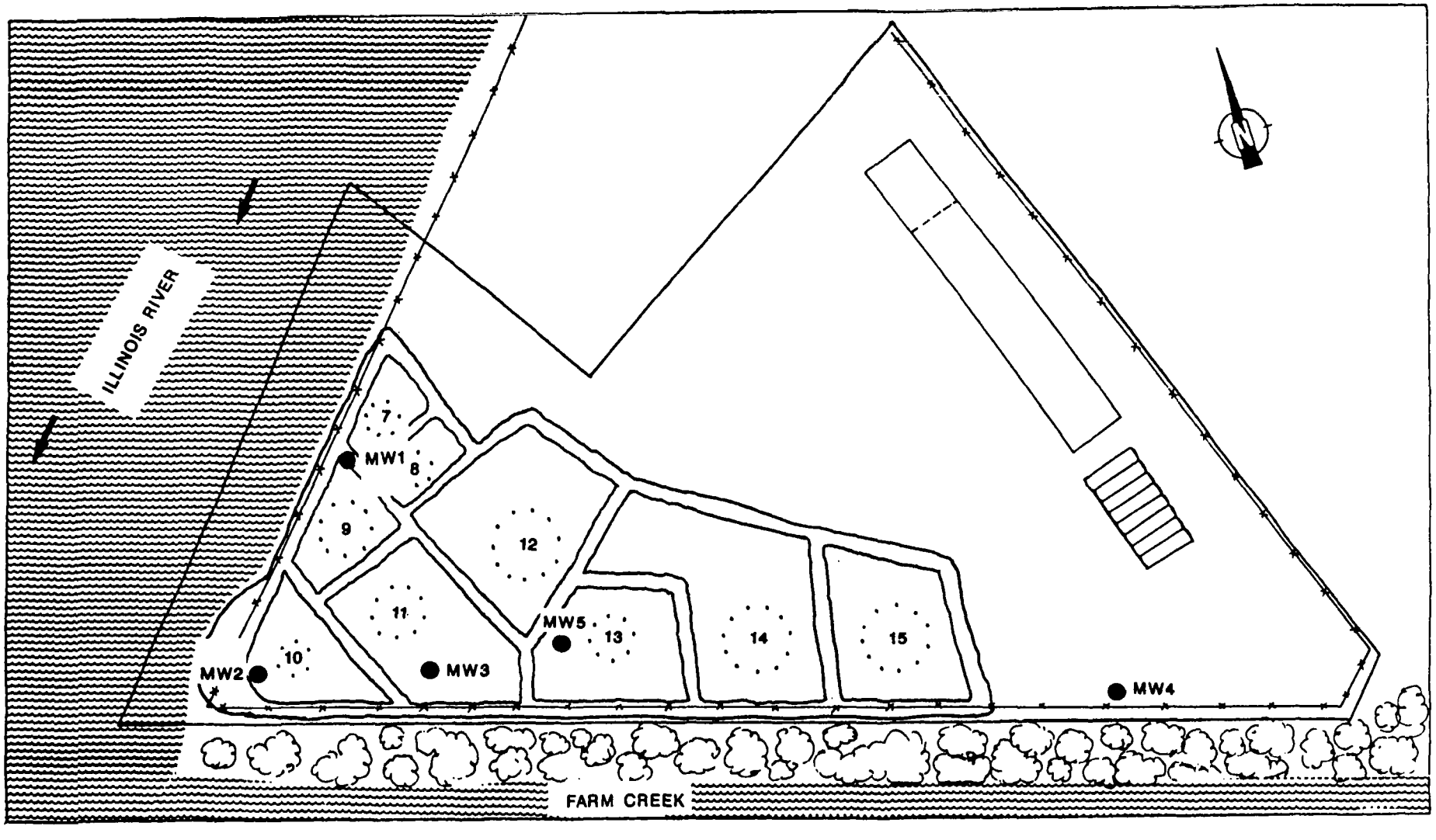
Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The procedures included the scrubbing of all equipment (e.g., stainless steel bowls, hand trowels, bucket augers and posthole digger) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

Monitoring Well Sampling Procedures. Four on-site monitoring wells, MW1 through MW4, were sampled to determine whether TCL compounds and/or TAL analytes were present in groundwater in the vicinity of the site (see Figure 3-3 for monitoring well sampling locations). Well MW4 was selected as the potential upgradient sampling location because the direction of groundwater flow in the area is probably to the west, toward the river.

Monitoring well MW1 is a 2-inch-diameter inner casing well located on the berm between areas 7 and 9. Monitoring well MW2 is a 2-inch-diameter inner casing well located in the southwest portion of area 10. Monitoring well MW3 is a 2-inch-diameter inner casing well located in the southern portion of area 11. Monitoring well MW4 is a 2-inch-diameter inner casing well located in the open field east of the site on Caterpillar property (see Table 3-1 for monitoring well data).

An additional on-site monitoring well, MW5, was not sampled by FIT. The well is a 2-inch-diameter inner casing well located in the western portion of area 13. The well was not sampled because FIT believed that



SCALE

0 100 200 300 400 500 FEET

FIGURE 3-3 MONITORING WELL SAMPLING LOCATIONS

Table 3-1

MONITORING WELL DATA

Well	Well Depth (feet)	Depth to Water (feet)
MW1	28.75	15.33
MW2 (and Duplicate)	19.00	9.75
MW3	18.58	8.33
MW4	23.42	9.00
MW5	22.50	7.08

sampling the other four monitoring wells would adequately assess groundwater conditions in the site area.

In accordance with U.S. EPA quality assurance/quality control requirements, a duplicate monitoring well sample and a field blank sample were collected. The duplicate sample was collected at location MW2. The field blank sample was prepared from distilled water.

All monitoring wells were purged of three to five volumes of standing water prior to the collection of each sample. All monitoring well samples were collected with stainless steel bailers that had been scrubbed with a solution of detergent (Alconox) and distilled water, and triple-rinsed with distilled water prior to the collection of each sample (E & E 1987).

As directed by U.S. EPA, all monitoring well samples were analyzed using the U.S. EPA CLP.

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected soil and monitoring well samples for TCL compounds and TAL analytes. All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanides. Complete chemical analysis results of FIT-collected soil and monitoring well samples are provided in Tables 4-1 and 4-2. In addition, significant tentatively identified compounds (TICs) detected in the analysis of FIT-collected soil samples are also provided in Table 4-1.

Quantitation/detection limits used in the analysis of soil and monitoring well samples are provided in Appendix D.

The analytical data for the chemical analysis of soil and monitoring well samples collected for this SSI have been reviewed by U.S. EPA for compliance with terms of CLP, and the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for validity and usability. Any additions, deletions, or changes to the data have been incorporated in the chemical analysis results tables presented in this section.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6
Date	6/26/90	6/26/90	6/26/90	6/26/90	6/26/90	6/26/90
Time	1140	1210	1345	1505	1610	1645
CLP Organic Traffic Report Number	ELQ92	ELQ93	ELQ94	ELQ95	ELQ96	ELQ97
CLP Inorganic Traffic Report Number	MELD82	MELD83	MELD84	MELD85	MELD86	MELD87
Compound Detected (values in µg/kg)						
Volatile Organics						
methylene chloride	—	—	—	—	45J	—
carbon disulfide	2J	—	—	—	—	—
toluene	2J	—	—	—	2J	—
Semivolatile Organics						
naphthalene	—	—	—	—	62J	—
2-methylnaphthalene	59J	—	—	79J	62J	—
acenaphthene	50J	—	—	—	—	—
dibenzofuran	45J	—	—	—	—	—
fluorene	62J	—	—	—	—	—
phenanthrene	720	—	—	—	—	120J
anthracene	150J	—	—	—	—	—
di-n-butylphthalate	510	54J	51J			52J
fluoranthene	1,400	—	42J	—	—	370
pyrene	1,000	—	41J	—	—	280J
benzo[a]anthracene	1,000	—	—	—	—	430
chrysene	990	—	—	—	—	230J
bis(2-ethylhexyl)phthalate	—	—	—	—	41J	47J
benzo[b]fluoranthene	740	—	—	—	—	430X
benzo[k]fluoranthene	670	—	—	—	—	430X
benzo[a]pyrene	870	—	—	—	—	210J
indeno[1,2,3-cd]pyrene	420	—	—	—	—	180J

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6
dibenzo[a,h]anthracene	250J	—	—	—	—	58J
benzo[g,h,i]perylene	410	—	—	—	—	210J
TICs†						
undecane,4,7-dimethyl- (17301-32-5)	—	—	—	2,400J	—	—
tridecane, 2-methyl- (1560-96-9)	—	—	—	1,300J	—	—
dodecane,2,6,10-timethyl- (3891-98-3)	—	—	—	1,500J	—	—
heptadecane,2-6-dimethyl- (54105-67-8)	—	—	—	7,500J	—	—
octadecane (593-45-3)	—	—	—	5,000J	—	—
iron,tricarbonyl[n-(phenyl)]- (74764-11-7)	—	—	—	3,400J	—	—
pentacosane (629-99-2)	—	—	—	2,000J	—	—
Analyte Detected (values in mg/kg)						
aluminum	2,170	813	1,090	3,360	2,130	4,930
arsenic	7.1	3.2	3.6	4.3	10.2	8.3
barium	94.5NJ	11.2BNJ	15.8BNJ	41.1NJ	59.9NJ	51.3NJ
beryllium	0.38B	—	—	0.22B	0.32B	0.39B
cadmium	4	1.1	—	—	2.8	—
calcium	30,900	31,900	38,500	50,500	39,800	39,600
chromium	13.9	2.9	4.8	10.1	9.3	13.2
cobalt	4.1B	2.6B	2.7B	5.4B	4.2B	6.3B
copper	49.6	8	7.4	12.9	206	19.9
iron	16,900	4,040	5,540	13,000	12,100	12,000
lead	348*J	23.2*J	116*J	45*J	339*J	55.6*J
magnesium	11,300*J	15,000*J	13,900*J	24,100*J	19,300*J	16,600*J

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6
manganese	319N*J	173N*J	233N*J	438N*J	285N*J	376N*J
mercury	0.3	—	—	—	9.8	0.15
nickel	9	—	6.4B	9.2	9.6	12.5
potassium	—	—	—	176B	—	519B
silver	1.7B	—	—	1.2B	1.5B	0.89B
sodium	196BJ	113BJ	122BJ	214BJ	190BJ	162BJ
thallium	0.69BNWJ	0.49BNWJ	—	0.47BNWJ	0.2BNWJ	0.39BNJ
vanadium	8.2B	4B	5.3B	11.9	8.1B	12
zinc	427E*J	41.8E*J	42E*J	76.6E*J	286E*J	112E*J

— Not detected.

† TIC Chemical Abstracts Service (CAS) number, if available, are provided in parentheses.

Table 4-1 (Cont.)

COMPOUND QUALIFIERS	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
X	Coelution of compounds.	Denotes compounds that coelute as in distinguishable isomers.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (85-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

Table 4-2

RESULTS OF CHEMICAL ANALYSIS OF

FIT-COLLECTED MONITORING WELL SAMPLES

Sample Collection Information and Parameters	Sample Number MW1	MW2	Duplicate	MW3	MW4	Blank
Date	6/26/90	6/26/90	6/26/90	6/26/90	6/26/90	6/26/90
Time	1445	1600	1600	1700	1730	1630
CLP Organic Traffic Report Number	ELR94	ELR95	ELQ98	ELR96	ELQ99	ELR97
CLP Inorganic Traffic Report Number	MELD89	MELD90	MELD93	MELD91	MELD94	MELD92
Temperature (°C)	25	23	23	23	20	30
Specific Conductivity (μmhos/cm)	625	850	850	430	1,100	1
pH	6.83	6.67	6.67	6.84	6.72	5.97
Analyte Detected (values in μg/L)						
aluminum	97.8BJ	174BJ	133BJ	168BJ	71.7BJ	280
antimony	—	25.7B	—	—	—	—
arsenic	8.5B	2.4B	2B	—	1.2B	—
barium	150B	145B	153B	92.6B	86.8B	—
calcium	268,000	295,000	315,000	84,100	307,000	553B
iron	6,660	8,390	8,700	629J	1,010J	268
lead	13.1J	1.8BWJ	1.8BWJ	5.9J	2.4BWJ	3.6
magnesium	21,700	32,900	35,200	16,000	30,800	—
manganese	847	1,020	1,080	492	1,800	5.1B
potassium	17,300	18,500	20,000	5,150	17,700	—
selenium	3.3NWJ	—	—	3.1NWJ	—	—
sodium	26,800	19,400	20,600	17,800	31,300	627BJ
thallium	1.3BJ	1BJ	2.7BJ	3.1BJ	1.3BJ	—
vanadium	—	—	2.5B	—	—	—
zinc	22J	68.5J	41.5J	26.2J	118J	26.9J

— Not detected.

Table 4-2 (Cont.)

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the TIST 33 083 site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

TAL analytes were detected in monitoring well samples MW1 through MW4. It is unlikely, however, that the substances detected in downgradient wells MW1 through MW3 can be attributed to the TIST 33 083 site because the TCL compounds and TAL analytes detected are present in concentrations comparable to those detected in the potential upgradient monitoring well sample, MW4. Furthermore, some of the TAL analytes detected may be constituents commonly found in area substrate.

A low potential does exist for the TCL compounds and TAL analytes detected in on-site soil samples to migrate to groundwater, in the vicinity of the site. This potential is based on the following information.

- TCL compounds, including methylene chloride (sample S5 at 45J µg/kg), and TAL analytes, including copper (sample S5 at 206 mg/kg), mercury (sample S5 at 9.8 mg/kg), and cadmium (sample S1 at 4 mg/kg), were detected in on-site soil samples at concentrations above those of the background sample. Sample S6 was collected as the potential

background sample. However, sample S2 seemed more representative of soil conditions in the area of the site and was, therefore, designated the background sample. Surface soil sample S6 was collected from an area near several tanks, the contents of which may have spilled or leaked onto the ground surface.

- Additional TCL compounds, including fluoranthene and pyrene, and TAL analytes, including arsenic, lead, and manganese, were detected in on-site soil samples. However, they were detected at concentrations comparable to those of the background sample, S2.

- No evidence of an engineered liner exists at the TIST 33 083 site.

- Polyaromatic hydrocarbons were detected in on-site soil samples. Polyaromatic hydrocarbons are commonly found in petroleum products such as diesel fuel (D'Auben 1990).

The potential for the migration of TCL compounds and TAL analytes from the site to area groundwater is also based on the following geological information. The geology of the area of the site is a combination of glacial outwash terrace deposits and glacial end moraine deposits. Within a 3-mile radius of the site, the outwash deposits of both the Farm Creek Valley and the larger Illinois River Valley are composed predominantly of sands, silts, and gravels deposited by Wisconsinan and Kansan glacial meltwaters (Illinois State Water Survey [ISWS] 1950). Well logs from the site area indicate that these unconsolidated deposits extend from the ground surface to depths of 40 to 90 feet beneath the site and are underlain by a continuous layer of Pennsylvanian shale (see Appendix E for well logs of the area of the site).

The areas to the north and south of the Farm Creek Valley increase sharply in elevation because of the presence of glacial end moraine material deposited by the retreating Wisconsinan ice sheet (ISWS 1950). These morainal deposits are composed predominantly of silty clay till

with lenses of sand and gravel scattered throughout. The thickness of these till deposits varies from 0 to approximately 200 feet (Student et al. 1981). These deposits are also underlain by essentially impermeable Pennsylvanian shale.

The aquifer of concern (AOC) consists of the entire thickness of unconsolidated glacial material overlying the Pennsylvanian shale. According to local well logs, the depth to groundwater is approximately 7.08 feet. Wells finished in the AOC range in depth from approximately 40 feet to more than 200 feet. The direction of groundwater flow beneath the site has not been established, but is probably toward the west (ISWS 1950).

Municipalities with wells located within a 3-mile radius of the site that draw water from the AOC include East Peoria and Peoria. The municipal water system of East Peoria serves 22,500 residents. In addition, the municipal water systems for Creve Coeur and Morton are interconnected with the East Peoria system. This allows for the exchange of water in the case of an emergency situation. The Creve Coeur System serves approximately 6,851 residents, and the Morton system serves 14,800 residents (Gablehouse 1987).

The municipal water system of Peoria, located west of the Illinois River, serves the approximately 124,160 residents of Peoria as well as the approximately 6,137 residents of Bartonville (Gregory 1991). The population that is served by groundwater to the west of the Illinois River was included in the groundwater target population because the Illinois River is not considered a discontinuity in the AOC. Because the Illinois River is only 12 to 13 feet deep in the area near the site (Zerbonia 1991), it does not completely bisect the AOC as it extends from east to west beneath the river. The closest municipal well to the TIST 33 083 site is approximately 3/4 miles southwest of the site and is one of Peoria's municipal wells. The private well closest to the site is located approximately 3/4 miles south of the site.

The total population within a 3-mile radius of the site potentially affected by the migration of TCL compounds or TAL analytes to groundwater is approximately 175,892 persons. The population that draws water from private wells within a 3-mile radius of the site that are finished in the AOC was calculated by counting houses on United States Geological

Survey (USGS) topographic maps (USGS 1949, 1949a, 1960, 1960a) and multiplying that number by a persons-per-household value of 2.65 for Peoria County or 2.82 for Tazewell County, Illinois (U.S. Bureau of the Census 1982). This population (1,444) was then added to the 174,448 persons served by the various municipal water systems.

5.3 SURFACE WATER

In accordance with the U.S. EPA-approved work plan, no surface water samples were collected during the SSI of the TIST 33 083 site. The nearest surface water bodies to the site are Farm Creek and the Illinois River, located along the south and west sides of the site, respectively. Both Farm Creek and the Illinois River are used for recreation (Thompson 1987); neither is used as a drinking water source within 3 miles downstream of the site. A surface water intake is located 3 1/2 miles north, and upstream, of the site. This intake, however, is outside the area of influence of the site.

A potential does not exist for the TCL compounds and TAL analytes detected in on-site soil samples to migrate to these surface water bodies. No overland surface water pathways were observed by FIT during the SSI, and the on-site berms would prevent any water from leaving the site.

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the TIST 33 083 site. During the reconnaissance inspection, FIT site-entry instruments (OVA 128, explosimeter, radiation monitor, and hydrogen cyanide monitor) did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does not exist for TCL compounds and TAL analytes to migrate from the site via windblown particulates. This potential is based on the following information.

- Although TCL compounds and TAL analytes were detected in on-site soil samples, these samples were subsurface soil samples collected at depths of 3 to 6 feet.

- The site is fairly well vegetated, and the presence of berms would further reduce the potential for substances to migrate from the site via windblown particulates.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and an interview with Caterpillar officials (Anderson et al. 1990), no documentation exists of an incident of fire or explosion at the site. East Peoria Fire Marshal Jim Riddle does not believe a fire or explosion threat exists at the site (Riddle 1991). According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI. In addition, all of the storage tanks were removed from the site in July 1989.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representatives, no incidents of direct contact with TCL compounds or TAL analytes at the TIST 33 083 site have been documented.

A potential does not exist for the public to come into direct contact with TCL compounds and TAL analytes detected at the site, because the site is completely fenced and equipped with an alarm system.

6. REFERENCES

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Gablehouse, Dan, December 1, 1987, Superintendent of Public Works, East Peoria, Illinois, telephone conversation, contacted by Melanie Nesterenko of E & E.

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ISWS, 1950, Report on Groundwater in the Peoria Region, Bulletin 39, written in cooperation with the Illinois State Geological Survey.

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Student, John D., Rauf Piskin, L. Jill Withers, and Jay Dickman, September 1981, Aquifers of Illinois: Underground Sources of Drinking Water and Non-Drinking Water, IEPA, Springfield, Illinois.

Thompson, Jay, December 2, 1987, Department of Public Works, East Peoria, Illinois, telephone conversation, contacted by Ronnie Galmore of E & E.

U. S. Bureau of the Census, 1982, 1980 Census of Population, Characteristics of the Population, General Population Characteristics, Illinois, Washington, D.C.

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_____, January 3, 1985, Potential Hazardous Waste Site Preliminary Assessment and Executive Summary, for the TIST 33 083 site, U.S. EPA ID: ILD042844456, prepared by Larry Winner, IEPA.

_____, February 12, 1988, Office of Solid Waste and Emergency Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.

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6364:10

APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

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4-MILE RADIUS MAP

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APPENDIX B

U.S. EPA FORM 2070-13

POTENTIAL HAZARDOUS WASTE SITE
- SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D042844456

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
TEXACO INC. SALES TERM 33083	1253 W. WASHINGTON (W. WASHINGTON + ILLINOIS RIVER)				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
EAST PEORIA	IL	61601	TAZEWELL	179	18

09 COORDINATES: LATITUDE 40 40 52. | LONGITUDE 089 35 23.

10 TYPE OF OWNERSHIP (Check one)
■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
6, 26, 90 (MONTH DAY YEAR)	■ ACTIVE ☐ INACTIVE	~1968 (BEGINNING YEAR) ; 1988 (ENDING YEAR) (Applies to when berms were active) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ■ B. EPA CONTRACTOR ECOLOGY AND ENVIRONMENT INC. (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
DANIEL SULLIVAN	CHEMICAL ENGINEER	ECOLOGY AND ENVIRONMENT	(312)663-9415
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
RON BUGG	HEALTH PHYSICIST / INDUSTRIAL HYGIENIST		( )
MIKE PHILLIPS	GEOLOGIST		( )
STAN SENGER	WATER RESOURCE MGR.		( )
SHERRIE STEVENSON	HEALTH + SAFETY SPECIALIST		( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
ESTELLA VALLEJO	ATTORNEY	100 NE ADAMS PEORIA, IL 61629	(309)675-4620
BOB KILGO	CORP. ENVIRONMENTAL ENGINEER	100 NE ADAMS PEORIA, IL 61629-3315	(309)675-5547
MARK HYNES	SUPV. CHEMICAL ENGINEERING		( )
RANDY ANDERSON	ENVIRONMENTAL ENGINEER		( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	0835	SUNNY, WARM, HUMID.

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
TOM CRAUSE	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	(217)782-9848

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
DANIEL SULLIVAN	U.S. EPA	ECOLOGY AND ENVIRONMENT	(312)663-9415	1, 28, 91 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D042844456

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A SOLID
- ☐ B POWDER, FINES
- ☒ C SLUDGE
- ☐ D OTHER (Specify)
- ☐ E SLURRY
- ☐ F LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

- TONS: UNKNOWN
- CUBIC YARDS:
- NO. OF DRUMS:

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A TOXIC
- ☐ B CORROSIVE
- ☐ C RADIOACTIVE
- ☒ D PERSISTENT
- ☐ E SOLUBLE
- ☐ F INFECTIOUS
- ☐ G FLAMMABLE
- ☒ H IGNITABLE
- ☒ I HIGHLY VOLATILE
- ☐ J EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	UNKNOWN		See Section 4 of SSIR Narrative. Also see Sections 2.3, and 5.2 to 5.6 of SSIR NARRATIVE.
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See Section 4 of SSIR, TABLE 4-1, and Section 2.3.				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	UNKNOWN		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

STATE (IEPA) FILES
ECOLOGY AND ENVIRONMENT FILES, REGION II.
SSI CONDUCTED 6-26-90.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D042844456

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~175,892 — 04 NARRATIVE DESCRIPTION

See Section 5.2 of SSIR, Groundwater

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See Section 5.3 of SSIR, Surface Water

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See Section 5.4 of SSIR, Air

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See Section 5.5 of SSIR, Fire + Explosion

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See Section 5.6 of SSIR, Direct Contact

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE: 6-26-90) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: ~4 (Acres) — 04 NARRATIVE DESCRIPTION

TCL compounds and TAL analytes were detected in on-site soil samples. See section 4 for results of chemical analysis of FIT collected samples.

01 ■ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~175,892 — 04 NARRATIVE DESCRIPTION

See section 4 of SSIR, as well as section 5.2 of SSIR Narrative.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See Section 5.6 of SSIR, Direct Contact

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~175,892 — 04 NARRATIVE DESCRIPTION

See Section 5 of SSIR Narrative

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D042844456

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ■ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
A potential exists due to the presence of TCL compounds and TAL analytes detected in on-site soil samples.

01 ■ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names(s) of species)
Potential exists through ingestion of flora above.

01 ■ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See "J" and "K" above.

01 ■ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids/Leaking drums) — 02 ■ OBSERVED (DATE: 1986) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown
04 NARRATIVE DESCRIPTION ~4000 GALLONS OF FUEL OIL SPILLED IN AREA 12 IN 1986. Caterpillar Personnel cleaned up the spill themselves and were convinced it did not reach the river. Currently, the warehouse is an active facility and hydrocarbons are stored in the tanks East of the warehouse. See section 2.3 of SSIR.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None was reported or observed.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None was reported or observed.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None was reported or observed.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
See Section 2.3 of SSIR, Site History.

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~153,868

IV. COMMENTS
The site is completely fenced and equipped with an alarm system.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
STATE (IEPA) FILES
ECOLOGY AND ENVIRONMENT FILES, REGION II.
SSI CONDUCTED 6-26-90.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D042844456

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
■ C. AIR	unknown	→	→	
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
■ I. OTHER (Specify) Special Waste Hauling Permit	1790205031	unknown	→	Special waste hauling for tank bottoms, fuel + water
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
■ D. TANK, ABOVE GROUND	9	tanks
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL	(exact volumes	
☐ G. LANDFARM	unknown)	
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply) UNKNOWN
- ☐ A. INCINERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER
- ■ A. BUILDINGS ON SITE: 1

06 AREA OF SITE: ~4 (Acres)

07 COMMENTS
Texaco, Inc. stored diesel fuel and various oils in the tanks from 1968 to 1980.
Caterpillar, Inc. stored fuels in the tanks through July 1988.
All tanks were dismantled and removed in July 1989.
See Section 2.3 of SSIR Narrative.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ■ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.
Site is completely fenced + equipped with an alarm system.
Caterpillar, Inc., officials note one spill (diesel fuel) in 1986, but all tanks have since been removed.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ■ NO

02 COMMENTS
Site is completely fenced and equipped with an alarm system.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

STATE (IEPA) FILES
ECOLOGY AND ENVIRONMENT FILES, REGION V.
SSI CONDUCTED 6-26-90.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D042844456

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ■
NON-COMMUNITY	C. ☐	D. ■

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ■ assumed
D. ☐	E. ☐	F. ☐ unknown

03 DISTANCE TO SITE
A. ~1 3/4 (mi)
B. ~3/4 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)
■ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ~175892
03 DISTANCE TO NEAREST DRINKING WATER WELL ~3/4 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
~7.08 (ft)	assumed west	~7.08 (ft)	unknown (gpd)	☐ YES ■ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)
See section 5.2 of SSIR, Groundwater

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS: precipitation infiltration	■ YES ☐ NO	COMMENTS: Groundwater probably discharges into Illinois River + Farm Creek, both adjacent to site.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)
■ A. RESERVOIR, RECREATION, DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
	☐	(mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. ~14,291 NO. OF PERSONS	B. ~66,813 NO. OF PERSONS	C. ~153868 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: on-site (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
~22,271	~100 ft (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)
The population within the vicinity of the site include the municipalities of Peoria, E. Peoria, Bartonville and Creve Coeur.

The site lies within a highly industrial area of East Peoria, Tazewell County, Illinois.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D042844456

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ■ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ■ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
~40 (ft)	unknown (ft)	unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2.02 (in)	2.75 (in)	Level %	Level (except bluffs)	Level %

09 FLOOD POTENTIAL
SITE IS IN 100 YEAR FLOODPLAIN

10
☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY No

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE: A. None (mi) OTHER: B. N/A (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
~1 (mi)
ENDANGERED SPECIES: mussel

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/(INDUSTRIAL)	(RESIDENTIAL) AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. ~1000 ft (mile)	B. ~1 (mi)	C. None (mi)	D. None (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SEE APPENDIX A

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE (IEPA) FILES
ECOLOGY AND ENVIRONMENT FILES, REGION V.
SSI CONDUCTED 6-26-90.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D042844456

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	4 monitoring wells	CompuChem, RTP, NC — TCL Weyerhauser, Federal Way, WA — TAL	now available
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	6 soil samples	CompuChem, RTP, NC — TCL Weyerhauser, Federal Way, WA — TAL	now available
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
O_2 meter	Read 21% O_2 at all times during SSI.
OVA 128	No readings above background.
Explosimeter	
Monitox (HCN)	
Radiation monitor	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ☐ AERIAL

02 IN CUSTODY OF: Ecology and Environment, Region V.
(Name of organization or individual)

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS: Ecology and Environment, Region V

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

	MW1	MW2	MW3	MW4	BLANK
TEMP (°C)	25	23	23	20	30
PH	6.83	6.67	6.84	6.72	5.97
CONDUCTIVITY (µMHOS)	625	850	430	1100	1

See Table 3-1 in SSIR Narrative for monitoring well Measurements.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State (IEPA) files

Ecology and Environment files, Region V.

SSI conducted 6-26-90.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D042844456

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Caterpillar, Inc.	00-557-0479	1253 W. Washington	3531	East Peoria	IL	61601

PARENT COMPANY (if applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE
unknown						

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Texaco, Inc.		1253 W. Washington		East Peoria	IL	61601

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
unknown						

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE (IEPA) FILES
ECOLOGY AND ENVIRONMENT, REGION V.
SSI CONDUCTED 6-26-90.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D042844456

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
Same as owner			unknown		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER				

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)		
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
Same as previous owner			unknown		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE (IEPA) FILES
ECOLOGY AND ENVIRONMENT, REGION V.
SSI CONDUCTED 6-26-90.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D042844456

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
Unknown	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Unknown			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Unknown			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE (IEPA) FILES.
ECOLOGY AND ENVIRONMENT FILES, REGION V.
SSI CONDUCTED 6-26-90.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D042844456

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ■ D. SPILLED MATERIAL REMOVED — 02 DATE 1986 — 03 AGENCY _____
04 DESCRIPTION
Spill of ~4,000 gallons of fuel oil which was cleaned up caterpillar officials. No agency was ever notified.

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D042844456

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ■ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE 1989 — 03 AGENCY _____
04 DESCRIPTION
Five monitoring wells were installed on-site for Caterpillar, Inc. Caterpillar, Inc. dismantled and removed all nine tanks in July 1989.

III SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE (IEPA) FILES
ECOLOGY AND ENVIRONMENT FILES, REGION II.
SSI CONDUCTED 6-26-90.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D042844456

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ● YES ○ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

In May 1979, the Administrator of the U.S. EPA found the site in violation of Illinois Rule 205(B)(1). The rule required the site loading rack to have a vapor collection and disposal system properly installed and operating. It is unclear as to what actions were taken as a result of this violation.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE (IEPA) FILES
ECOLOGY AND ENVIRONMENT FILES, REGION V.
SSI CONDUCTED 6-26-90.

EPA FORM 2070-13 (7-81)

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 1 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90

TIME: 1814

DIRECTION OF PHOTOGRAPH: SSE

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S1

DESCRIPTION: CLOSE-UP OF SUBSURFACE SOIL SAMPLE S1.

DATE: 6-26-90

TIME: 1815

DIRECTION OF PHOTOGRAPH: SSW

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S1

DESCRIPTION: PERSPECTIVE SHOWING SUBSURFACE SOIL SAMPLE S1.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 2 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90

TIME: 1818

DIRECTION OF PHOTOGRAPH: NE

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S2

DESCRIPTION: CLOSE-UP OF SUBSURFACE SOIL SAMPLE S2.

DATE: 6-26-90

TIME: 1818

DIRECTION OF PHOTOGRAPH: NE

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S2

DESCRIPTION: PERSPECTIVE SHOWING SUBSURFACE SOIL SAMPLE S2.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 **PAGE** 3 **OF** 15

U.S. EPA ID: ILD042844456 **TDD:** F05-8903-010 **PAN:** FIL0602SA

DATE: 6-26-90

TIME: 1823

DIRECTION OF PHOTOGRAPH: NW

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S3

DESCRIPTION: CLOSE-UP OF SUBSURFACE SOIL SAMPLE S3.

DATE: 6-26-90

TIME: 1824

DIRECTION OF PHOTOGRAPH: NW

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S3

DESCRIPTION: PERSPECTIVE SHOWING SUBSURFACE SOIL SAMPLE S3.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 4 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90

TIME: 1831

DIRECTION OF PHOTOGRAPH: NORTH

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S4

DESCRIPTION: CLOSE-UP OF SUBSURFACE SOIL SAMPLE S4.

DATE: 6-26-90

TIME: 1831

DIRECTION OF PHOTOGRAPH: SOUTH

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S4

DESCRIPTION: PERSPECTIVE SHOWING SUBSURFACE SOIL SAMPLE S4.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 5 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90

TIME: 1833

DIRECTION OF PHOTOGRAPH: NORTH

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S5

DESCRIPTION: CLOSE-UP OF SUBSURFACE SOIL SAMPLE S5.

DATE: 6-26-90

TIME: 1833

DIRECTION OF PHOTOGRAPH: NORTH

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S5

DESCRIPTION: PERSPECTIVE SHOWING SUBSURFACE SOIL SAMPLE S5.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 6 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90

TIME: 1839

DIRECTION OF PHOTOGRAPH: SE

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S6

DESCRIPTION: CLOSE-UP OF SURFACE SOIL SAMPLE S6, COLLECTED AS A BACKGROUND SAMPLE.

DATE: 6-26-90

TIME: 1840

DIRECTION OF PHOTOGRAPH: NNW

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): S6

DESCRIPTION: PERSPECTIVE SHOWING SURFACE SOIL SAMPLE S6.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 7 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90

TIME: 1819

DIRECTION OF PHOTOGRAPH: SSW

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): MW1

DESCRIPTION: CLOSE-UP OF MONITORING WELL SAMPLE MW1.

DATE: 6-26-90

TIME: 1820

DIRECTION OF PHOTOGRAPH: SW

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): MW1

DESCRIPTION: PERSPECTIVE SHOWING MONITORING WELL SAMPLE MW1. THE FENCE WHICH ENCOMPASSES THE SITE IS SHOWN IN THE BACKGROUND.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 **PAGE** 8 **OF** 15

U.S. EPA ID: ILD042844456 **TDD:** F05-8903-010 **PAN:** FIL0602SA

DATE: 6-26-90

TIME: 1825

DIRECTION OF PHOTOGRAPH: NW

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): MW2

DESCRIPTION: PERSPECTIVE SHOWING MONITORING WELL SAMPLE MW2. THE FENCE WHICH PARALLELS THE ILLINOIS RIVER IS SHOWN IN THE BACKGROUND. (THE CORRESPONDING CLOSE-UP DIDN'T DEVELOP)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 9 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90

TIME: 1829

DIRECTION OF PHOTOGRAPH: NW

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): MW3

DESCRIPTION: CLOSE-UP OF MONITORING WELL SAMPLE MW3.

DATE: 6-26-90

TIME: 1829

DIRECTION OF PHOTOGRAPH: NW

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): MW3

DESCRIPTION: PERSPECTIVE SHOWING MONITORING WELL SAMPLE MW3. THE CITY OF PEORIA IS SHOWN IN THE BACKGROUND.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 10 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90

TIME: 1836

DIRECTION OF PHOTOGRAPH: NE

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): MW4

DESCRIPTION: CLOSE-UP OF MONITORING WELL SAMPLE MW4.

DATE: 6-26-90

TIME: 1836

DIRECTION OF PHOTOGRAPH: NORTH

WEATHER CONDITIONS: SUNNY

WARM, HUMID

PHOTOGRAPHED BY: D. SULLIVAN

SAMPLE ID (if applicable): MW4

DESCRIPTION: PERSPECTIVE SHOWING MONITORING WELL SAMPLE MW4. CATERPILLAR'S WAREHOUSE IS SHOWN IN THE BACKGROUND.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 11 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90 TIME: 1826 DIRECTION OF PHOTOGRAPH: SE PHOTOGRAPHED BY: D. SULLIVAN

WEATHER CONDITIONS: SUNNY, WARM, HUMID SAMPLE ID (if applicable): N/A

DESCRIPTION: PERSPECTIVE LOOKING TOWARD FARM CREEK, TAKEN FROM THE WEST BORDER OF THE SITE.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 12 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90 TIME: 1826 DIRECTION OF PHOTOGRAPH: NE PHOTOGRAPHED BY: D. SULLIVAN

WEATHER CONDITIONS: SUNNY, WARM, HUMID SAMPLE ID (if applicable): N/A

DESCRIPTION: PERSPECTIVE TAKEN FROM THE SOUTHWEST CORNER OF THE SITE. THE CATERPILLAR OFFICE / WAREHOUSE BUILDING IS LOCATED IN THE BACKGROUND.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 13 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90 TIME: 1848 DIRECTION OF PHOTOGRAPH: SSE PHOTOGRAPHED BY: D. SULLIVAN

WEATHER CONDITIONS: SUNNY, WARM, HUMID SAMPLE ID (if applicable): N/A

DESCRIPTION: PERSPECTIVE LOOKING TOWARD FARM CREEK. IN THE FOREGROUND ARE BERMED AREAS WHICH COMPOSE THE EASTERN PORTION OF THE SITE.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 14 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90 TIME: 1848 DIRECTION OF PHOTOGRAPH: SW PHOTOGRAPHED BY: D. SULLIVAN

WEATHER CONDITIONS: SUNNY, WARM, HUMID SAMPLE ID (if applicable): N/A

DESCRIPTION: PERSPECTIVE LOOKING TOWARD FARM CREEK. IN THE FOREGROUND ARE BERMED AREAS WHICH COMPOSE THE CENTRAL PORTION OF THE SITE.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: TEXACO INC. SALES TERM 33083 PAGE 15 OF 15

U.S. EPA ID: ILD042844456 TDD: F05-8903-010 PAN: FIL0602SA

DATE: 6-26-90 TIME: 1848 DIRECTION OF PHOTOGRAPH: WEST PHOTOGRAPHED BY: D. SULLIVAN

WEATHER CONDITIONS: SUNNY, WARM, HUMID SAMPLE ID (if applicable): N/A

DESCRIPTION: PERSPECTIVE LOOKING TOWARD ILLINOIS RIVER. THE WESTERN PORTION OF THE SITE IS LOCATED TO THE LEFT OF THE TELEPHONE POLE.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND TARGET ANALYTE LIST QUANTITATION/DETECTION LIMITS

ADDENDUM A

ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont.)

CONTRACT LABORATORY PROGRAM

TARGET ANALYTE LIST (TAL)

INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits: Water (µg/L)	Detection Limits: Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

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APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled X. Finished in Drift X. In Rock ____.
   Tubular X. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
DRILL CUTTINGS	0	90

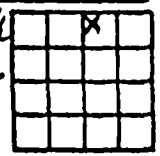
2. Distance to Nearest:
   Building 22 Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast Iron) ____
   Privy ____ Sewer (Cast Iron) ____
   Septic Tank 45 Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed 8/11/86
5. Permanent Pump Installed? Yes X Date 8/11/86 No ____
   Manufacturer REDJACKET Type SUB Location WELL
   Capacity 5 gpm. Depth of Setting 45 Ft.
6. Well Top Sealed? Yes X No ____ Type ____
7. Pitless Adapter Installed? Yes X No ____
   Manufacturer BAKER Model Number 4PS45SBWC OM
   How attached to casing? SCREWED
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes X No ____
10. Pressure Tank Size ~~2 GAL~~ DIAPHRAM
    Location BASEMENT
11. Water Sample Submitted? Yes ____ No X

REMARKS:

Co # 21587

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner LOIS SNYDER Well No. 2
    Address 130 KERNE LN. EAST PEORIA, IL
    Driller WILLIAM MEIERT License No. 102-359
11. Permit No. 53665 Date 1986
12. Water from DIRTY SAND & GRAVEL (Formation) at depth 45 to 53 ft.
13. County TAZEWELL
    Sec. 34 NW
    Twp. 26N
    Rge. 4E
    Elev. ____



SHOW LOCATION IN SECTION PLAT
150'NL 150'WL NE

14. Screen: Diam. 4 in.
    Length: 3 ft. Slot 12
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	BLK ST. 11#	0	48

16. Size Hole below casing: ____ in.
17. Static level 36 ft. below casing top which is 1 ft. above ground level. Pumping level ____ ft. when pumping at 5 GPM gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW SANDY CLAY	31	31
GRAY CLAY TR SAND	14	45
YELLOW CLAY, STG WATER BEARING	8	53
DARK GRAY TO BLACK SHALE	16	69
DARK GRAY SHALE	19	87

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED W. M. Eleet DATE 8/30/87

WELL LOG 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

TEST HOLE	Thickness	Top	Bottom
Asphalt		0	4"
Gravel		4"	1
Brown clay		1	12
Brown clayey silt with sand seams		12	18
Gray very silty clay, occasional sand seam		18	50
Sticky gray silty clay, sand seams		50	73
Fine sand to coarse gravel and boulders. Mud Loss: 3" Mud Weight: 9.5		73	88
Gravel and boulders with sand intermixed		88	91
Gray shale		91	96
			TD

Set 2" pipe to 90' with bottom 20' slotted pumped with contractors pump 4 hours at approximately 50 gpm

Static water level: 9'

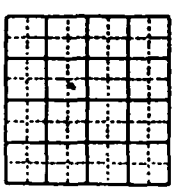
Size Mud Pit: Length 6', Width 4'

Split-spoon sample at 77-78.5'

S.S.# 60291

NO ENVELOPE

COMPANY Layne-Western Co.
FARM East Peoria No. 3-76
DATE DRILLED January 20, 1976 COUNTY No. 21068
AUTHORITY Company
ELEVATION
LOCATION Ap. 2100'N line, 2100'W line of NW
COUNTY TAZEWELL



32-26N-4W

WELL LOG 2

ILLINOIS GEOLOGICAL SURVEY, URBANA

Permit #46702	Thickness	Top	Bottom
Miscellaneous fill		0	1
Brown very sandy clay		1	6
Brown medium sand to coarse gravel (loose), trace fine sand, some boulders		6	44
Gray shale		44	46
Total depth			46

Casing: 29' of 12" .330" steel with welded joints +2' - 27'

Screen: 17' of 12" diameter, .120" stainless steel, with welded joints 27' - 44'

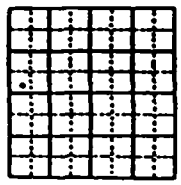
Hole record: 48" 0' - 10'
38" 10' - 46'

Well test data: Static level 19', pumping level 23' after 5½ hours pumping at 412 gpm. Length of test: 8½ hours.

S.S. #60629

Test hole data: Set 2" pipe to 45' with bottom 25' slotted pumped with contractor's pump. Pumping about 50 gpm for 4 hours. Static water level: 15'
Size mud pit: Length 5', Width 4'
S.S. #60293
NO ENVELOPE

COMPANY Layne-Western Co., Inc. 1-76
FARM East Peoria NO. 9
DATE DRILLED January 15, 1976 COUNTY NO. 21066
AUTHORITY Company
ELEVATION
LOCATION 300' S line, 400' W line, NW
COUNTY TAZEWELL



33-26N-4W

WELL LOG 3

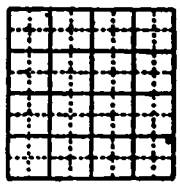
(22844—50M—9-55)

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Fill	4		4
Black loam	5		9
Bluegray clay	4		13
Blue clay	21		34
Sand and fine gravel (dirty)	4		38
Blue clay	22		60
Blue clay and fine sand	7		67
Fine sand (dirty)	2		69
Gray clay and small amounts sand	7½		77½
Sand and gravel			86
black iron pipe			TD
Casing: 4 ″ from 0 to 80'.			
Static water level 11 feet.			
Tested capacity 12 gal. per min. Lenght of test 3hrs.30min.			
Summary Sample Study by G.H. Emrich	6/56		
PLEISTOCENE SERIES			
No sample	4		4
Till or soil, brown, leached	5		9
Till, yellowish gray, oxidized, calcareous.	4		13
Till, silty, gray, calcareous.	21		34
Gravel, silty, calcareous.	4		38
Till, silty, gray to buff, calcareous	29		67
Sand and till, gray, calcareous.	2		69
Till, sandy, gray to buff, calcareous.	8		77
Gravel and till, calcareous.	2		79
Gravel, clacareous, clean.	4		83
Gravel and sand, silty, calcareous; shale at bottom (Pennsylvanian)	3		86
S.S. # 26485			

COMPANY M. Ebert
FARM Caterpillar Tractor Co. NO. 2
DATE DRILLED 1956 COUNTY NO. 37
AUTHORITY W. M. Ebert
ELEVATION 441' Est. TM
LOCATION 100' W & 1065'N of SEc.
COUNTY Tazewell



31-26N-4W

WELL LOG 4

ILLINOIS GEOLOGICAL SURVEY, URBANA

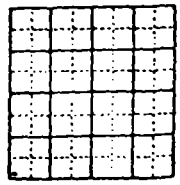
TEST HOLE	Thickness	Top	Bottom
Miscellaneous fill		0	5
Brown silty clay		5	9
Brown silty sandy clay		9	23
Sand and gravel		23	25
Gray silty sandy clay		25	28
Fine sand to coarse gravel loose, Mud Loss:12", Mud Weight: 9.5		28	34
Blue gray clay		34	48
Blue gray shale		48	60
			TD

Size Mud Pit: Length:6', Width4'

S.S.# 60290

NO ENVELOPE

COMPANY Layne-Western Co.
FARM East Peoria NO. 4-76
DATE DRILLED January 21, 1976 COUNTY NO. 21069
AUTHORITY Company
ELEVATION
LOCATION Ap. 50'S.line, 90'W line of SW
COUNTY TAZEWELL



33-26N-4W

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 61b, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift X. In Rock____.
   Tubular X. Gravel Packed____. Depth 23 ft.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

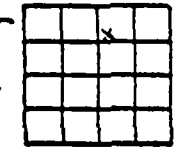
2. Distance to Nearest:
   Building 200 Ft. Seepage Tile Field____
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 350 Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed July 7, 1967
5. Permanent Pump Installed? Yes X No____
   Manufacturer Red Jacket Type Sub. S150N1-9CB
   Capacity 25 gpm. Depth of setting 18 ft.
6. Well Top Sealed? Yes____No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____No X

REMARKS:

WELL LOG 6

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. NF 2454 Year 1967
11. Property owner Dixon Fisheries Well No. 1
    Address 807 North Main St., East Peoria, Ill.
    Driller Chris Ebert Co. License No. 92-499
12. Water from Sand & gravel formation at depth 19 to 23 ft.
13. County Tazewell
    Sec. 27.59
    Twp. 26N
    Rng. 4W
    Elev.____



14. Screen: Diam. 3 3/4 in.
    Length: 4 ft. Slot 35

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Standard Black	4	19

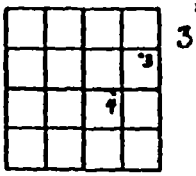
SHOW LOCATION IN SECTION PLAT
100'N, 1100'W
SE/c NW N

16. Size Hole below casing: - - - in.
17. Static level 4 ft. below casing top which is one ft. above ground level. Pumping level 8 ft. when pumping at 60 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sandy brown dirt	6	6
Sandy yellow clay	6	12
Brown sand & gravel-some clay-very hard	3	15
Brown water sand	3	18
Medium to coarse brown sand & fine gravel	5	23
Medium gray water sand-some pebbles down to 26 ft.		
and gray shale at 26 ft.		
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Robert H. Ebert M. DATE Feb 12, 1969

Town East Peoria Township Fondulac Map No. 3
Company John Bolliger & Sons No. R. 4W
Farm T. P. & W. R.R. No. T. Sec.
Authority Driller's log 31
Elevation 26
Collector K. O. Emery N
Confidential Date Drilled



No.	With 234 Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Well #3				
	Elev. 439				
	1500' N. line, 700' E. line				
	Soil and clay, brown	4		4	
	Clay, brown	4		8	
	Clay, blue	22		30	
	Sand and gravel	10		40	
	Clay, blue	1		41	
	Sand and gravel, fine	3		44	
	Shale, soft				
	COUNTY NO. 235				
	Well #4				
	Elev. 439				
	2700' N. line, 1600' E. line				
	Soil and clay, brown	4		4	
	Clay, brown	4		8	
	Clay, blue	19		27	
	Gravel, coarse	12		39	
	Sand, coarse	5		44	
	Shale				
	NO ENVELOPE STRIP FILED				

COUNTY Tazewell INDEX NO. 0331
DRILL RECORD
31-26N-4W
(12256—3M) ILLINOIS GEOLOGICAL SURVEY, URBANA (11-41)